

The Charity Foundation need a database to organize and keep track of the Families needy, employee, goods, service, and suppliers funding the foundation.

The foundation is organized into services. Each service aid families and has a unique name, and unique Service ID, A service'll have type. and Service must managed by one and only employee. The primary key is Service ID.

The Database will manage and store many families, each of families has a name, and a unique ID, and number of members, contact information (Phone number, mailBox), single several location,,and detailed status about the family. A family is assigned at least one service, but services must assigned by many families.
forging key is serves ID.

Each Employee has a name, and a Unique id, and join year(Day,Month,Year) ,Years_of_work derived from join year, and a unique phone number in additionally to a Branch (Building_Number, Zip_code), employe at least managed one or more services .

The database will store the goods information, Start with a name, a unique goods Id ,FoodType and select between either a canned or fresh food, and name of Funding Supplier ,weight, quantity, and Shipping .Goods supplied by many supplier,Supplier supply many goods . relationship with entity suppliers.

The foundation suppliers contain the company name, unique serial number, delegates, contact could be one of (phone number, postal code), single location,. Each Supplier funding many services but Each services founded by one supplier. relationship with entity services.

Made via :

Saja Aldubayan

Haya Aldosari

Yasmnee alshehri

Type of attributes

Services (
Name > varchar2
Services_ID > number , primary key
Type > multi value , varchar2

Families (
Name > varchar2
ID > number , primary key
no_of_members > number
Contact_info> number, composite attributes(phone number, mailBox)
Location >Muti value, varchar2
status > varchar2
)

Employee (
Name > varchar2
EMP_ID > number, primary key
Phone_number > number
Branche > number ,composite divid into(Building_Number, Zip_code)
Join_Year > Date ,composite divid into(day , Month ,Year)
Years_of_work > derived from join year
)

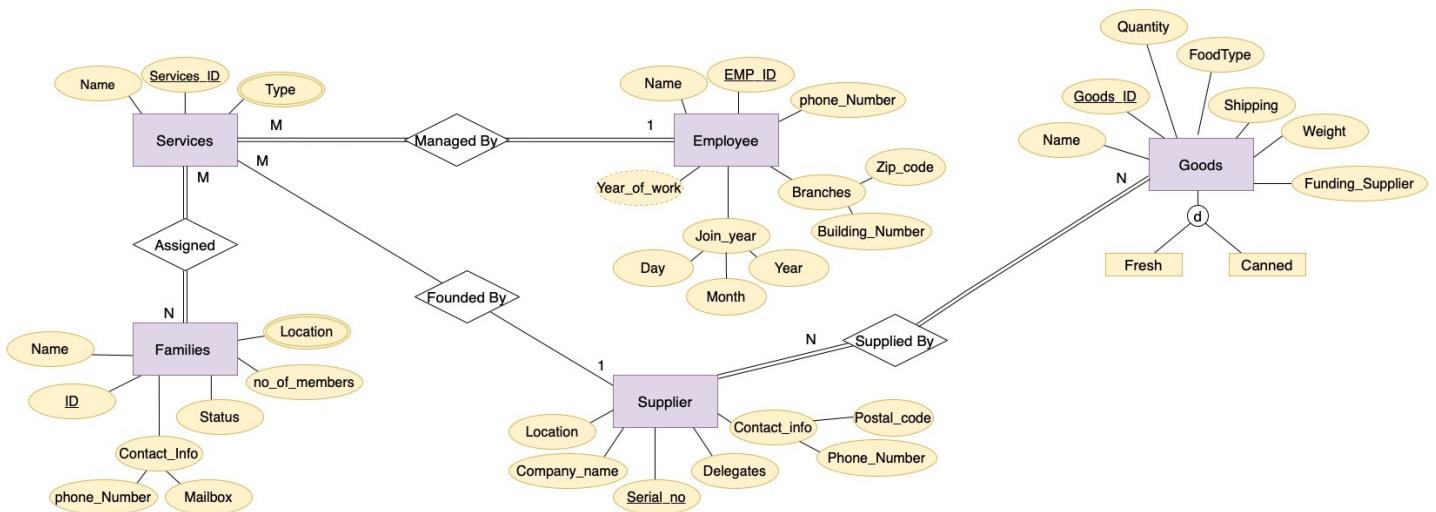
Goods(
Name > varchar2
Goods_ID> number , primary key
Goods either be a fresh or canned(disjoint)
Funding_suppliers >varchar2
Weight > number
Shipping > varchar2
Quantity> number
FoodType> varchar2)

Supplier(
company_Name > varchar2
Serial_No > number, primary key
Delegates > varchar2
contact > number, composite divid into(Phone_number, Postal Code)
Location> varchar2
)

Relationship

All relationShip is Binary level

Relationships	Cardinality	Participation
Services must managed by one employee	M to 1	Total Total
Employee at least managed one or more services	M to 1	Total Total
Services assigned by to many families	M to M	Total Total
families assigned at least one Services	M to M	Total Total
Each serves founded by one supplie ,Each Supplier funding many services	M to 1	Partial Partial
Goods supplied by many supplier,Supplier suply many goods	M to M	Total Total



Services

Name	Services_ID	#EMP_ID	#Serial_no
------	-------------	---------	------------

Families

Name	ID	No_of_member	Status	Phone_number	Mailbox
------	----	--------------	--------	--------------	---------

Employee

Name	EMP_ID	Phone_number	Zip_code	Builiding_number	Day	Month	Year
------	--------	--------------	----------	------------------	-----	-------	------

Supplier

Location	Compeny_name	Serial_no	Delegates	Phone_number	Postal_code
----------	--------------	-----------	-----------	--------------	-------------

Goods

Name	Goods_ID	Quantity	Shipping	Weight	Funding_Supplier	FoodType
------	----------	----------	----------	--------	------------------	----------

Type_Servics

Services_ID	Type
-------------	------

Fam_Location

ID	Location
----	----------

Assigned

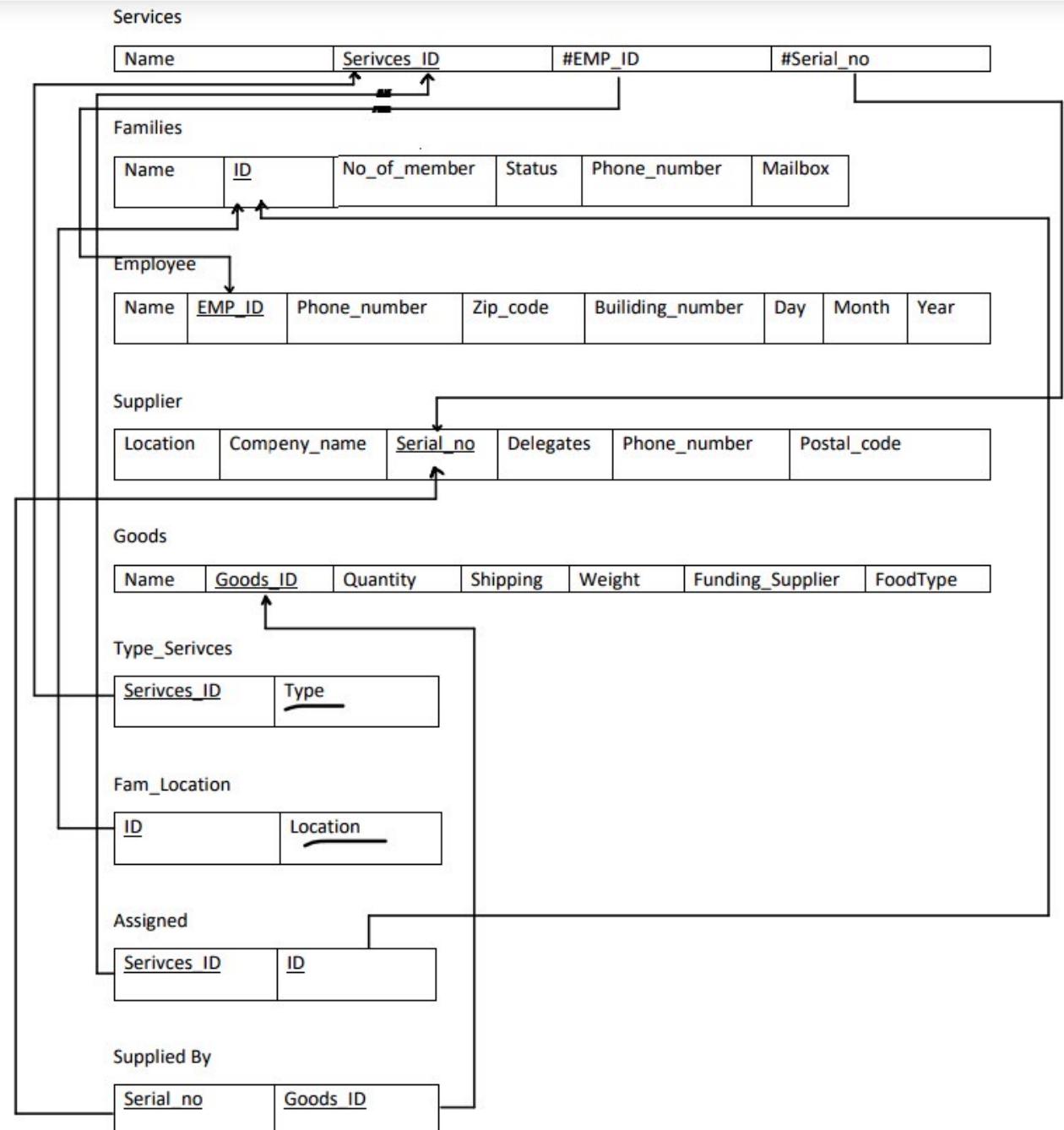
Services_ID	ID
-------------	----

Supplied By

Serial_no	Goods_ID
-----------	----------

Goods (EER – Single relation with one type attributes)

Name	<u>Goods_ID</u>	Quantity	Shipping	Weight	Funding_Supplier	FoodType



1 repeat entity's attributes

2 Remove the repeating attributes

ContactTable

RecordID	PhoneNo	MailBox	ID
----------	---------	---------	----

Services

Name	Serivces_ID	#EMP_ID	#Serial_no
------	-------------	---------	------------

Families

Name	ID	No_of_member	Status
------	----	--------------	--------

Employee

Name	EMP_ID	Phone_number	Zip_code	Builing_number	Day	Month	Year
------	--------	--------------	----------	----------------	-----	-------	------

Supplier

Location	Compeny_name	Serial_no	Delegates	Phone_number	Postal_code
----------	--------------	-----------	-----------	--------------	-------------

Goods

Name	Goods_ID	Quantity	Shipping	Weight	Funding_Supplier	FoodType
------	----------	----------	----------	--------	------------------	----------

Type_Servics

Serivces_ID	Type
-------------	------

Fam_Location

ID	Location
----	----------

Assigned

Serivces_ID	ID
-------------	----

Supplied By

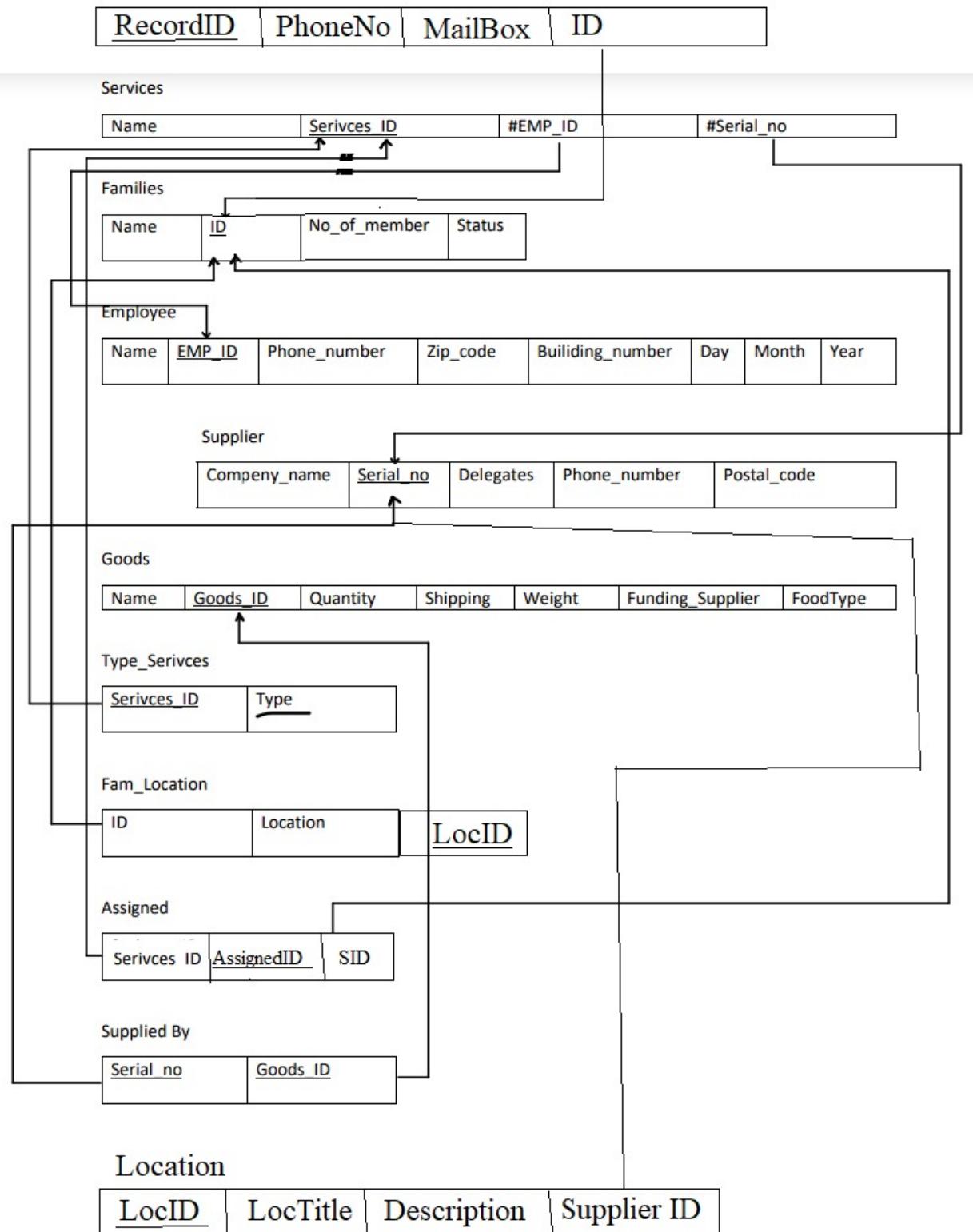
Serial_no	Goods_ID
-----------	----------

1 repeat entity's attributes

2 Remove the repeating attributes

3 Add an attribute to the new entities

ContactTable

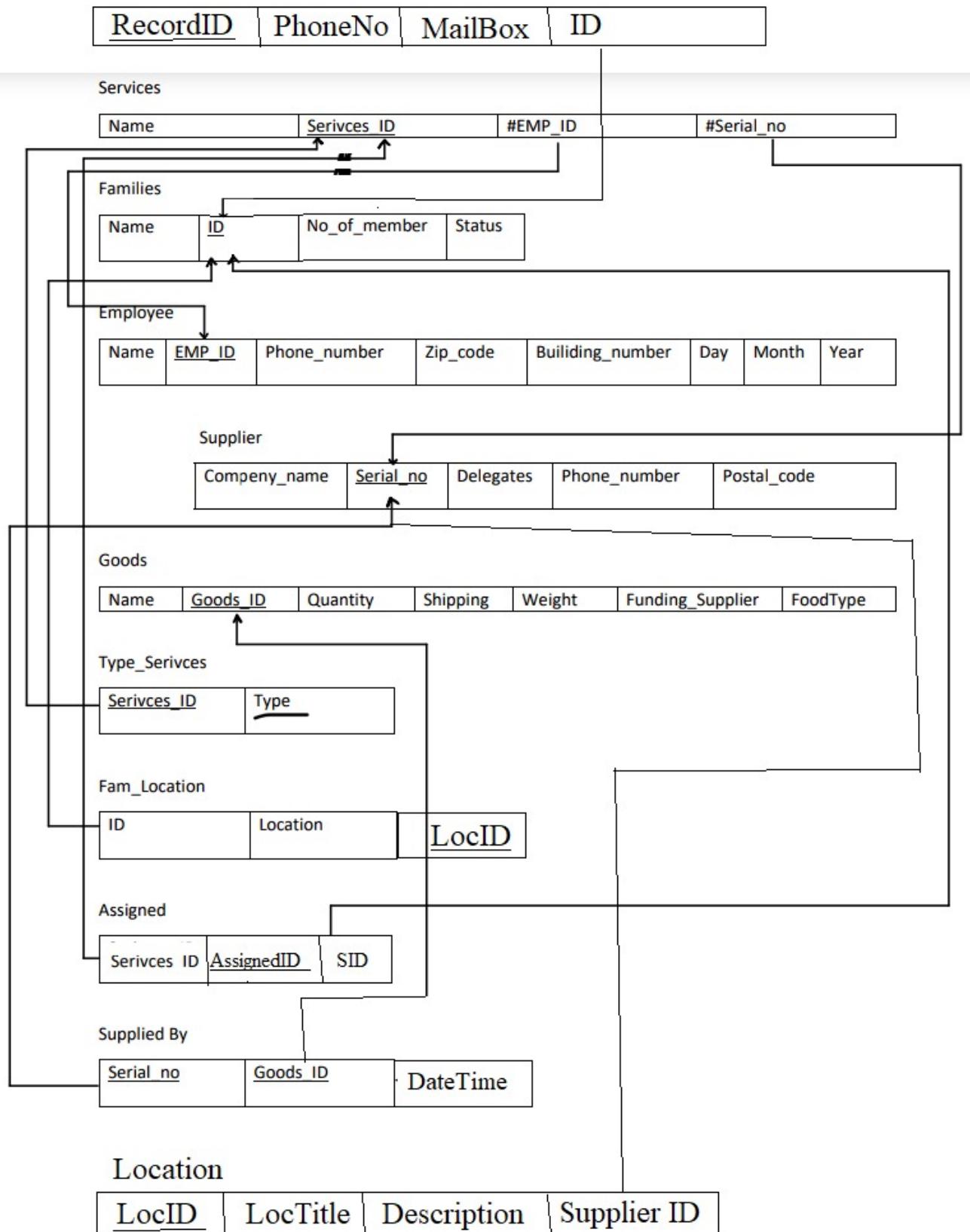


1 repeat entity's attributes

2 Remove the repeating attributes

3 Add an attribute to the new entities

ContactTable



Services Table

```
create table Services(
Name varchar2(50) not null,
Services_ID number(5) not null,
EMP_ID number(5),
serial_no number(5),
constraint ID_PK primary key (Services_ID),
constraint EMP_FK foreign key(EMP_ID ) references Employee(EMP_ID ),
constraint serial_FK foreign key(serial_no ) references Suppliers(serial_no )
)

insert all
into Services(Name,Services_ID,serial_no,EMP_ID) values('Education',23000,83476,3775)
into Services(Name,Services_ID,serial_no,EMP_ID ) values('Health Care',27211,56788,3113)
into Services(Name,Services_ID,serial_no,EMP_ID ) values('Nutrition',29440,12334,3213)
into Services(Name,Services_ID,serial_no,EMP_ID ) values('Clothes',27001,91041,3885)
into Services(Name,Services_ID,serial_no,EMP_ID ) values('Fiancial Aid',26522,65743,3217)
into Services(Name,Services_ID,serial_no,EMP_ID ) values('Furniture',27551,11263,3115)
select*from dual;
select*from Services;
```

NAME	SERVICES_ID	EMP_ID	SERIAL_NO
Education	23000	3775	83476
Health Care	27211	3113	56788
Nutrition	29440	3213	12334
Clothes	27001	3885	91041
Fiancial Aid	26522	3217	65743
Furniture	27551	3115	11263

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6 rows selected.

Families Table

```
create table families(
name varchar2(50) not null,
ID number(10) not null,
no_of_members number(10) not null,
status varchar2(50) not null,
phone_number number(10) not null,
mailbox number(9) not null,
constraint pk_id primary key (ID)
)
insert into families values(' Salhe Aldossary',1127374155,10,'need to clothes',0557715898,20321)
insert into families values('Um Faisal Alotaibi',1122448156,7,'need Fiancial Support',0555287651,99883)
insert into families values('Suad alqahtani',1120029188,8,'lack of food',0554714662,11988)
insert into families values('Mohammed alSSubaie',1129087103,3,'healthe care',0557770098,12287)
insert into families values('Saad alarjani',1123715261,6,'need to Furniture',0544770220,87110)
insert into families values('Mariam khalidi',1120453677,5,'need School Tools',0547220317,22872)

select*from families;
```

NAME	ID	NO_OF_MEMBERS	STATUS	PHONE_NUMBER	MAILBOX
Saad alarjani	1123715261	6	need to Furniture	544770220	87110
Suad alqahtani	1120029188	8	lack of food	554714662	11988
Mohammed alSSubaie	1129087103	3	healthe care	557770098	12287
Salhe Aldossary	1127374155	10	need to clothes	557715898	20321
Um Faisal Alotaibi	1122448156	7	need Fiancial Support	0555287651	99883
Mariam khalidi	1120453677	5	need School Tools	0547220317	22872

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6 rows selected.

Employee Table

```
create table Employee(
Name varchar2(50) not null,
EMP_ID number(5) not null,
phone_Number number(10) not null,
zip_code number(5) not null,
Builiding_Number number(4) not null,
day number(2) ,
month number(2) ,
Year number(4) ,
constraint EMPID_PK primary key (EMP_ID)
)

insert all
into Employee(Name,EMP_ID,phone_Number,zip_code,Builiding_Number,Day,Month,year )Values('Fahad Alhamd',3213,0557895603,12211,1169, 4,3,2016)
into Employee(Name,EMP_ID,phone_Number,zip_code,Builiding_Number,Day,Month,year )Values('Essa AlSaleh',3775,0558195000,12211,1169, 12,7,2019)
into Employee(Name,EMP_ID,phone_Number,zip_code,Builiding_Number,Day,Month,year )Values('Mohammed Alhamoud',3115,0555127700,12211,1169, 9,3,2021)
into Employee(Name,EMP_ID,phone_Number,zip_code,Builiding_Number,Day,Month,year )Values('Saleh AlShehri',3885,0555323103,24211,1073,17,5,2016)
into Employee(Name,EMP_ID,phone_Number,zip_code,Builiding_Number,Day,Month,year )Values('Ali Bou Bakr',3217,0544813303,24211,1073,22,8,2017)
into Employee(Name,EMP_ID,phone_Number,zip_code,Builiding_Number,Day,Month,year )Values('Fahad AlSulaymani',3113,05541410692,12211,1169,27,5,2018)
select*from dual;

select*from employee;
```

NAME	EMP_ID	PHONE_NUMBER	ZIP_CODE	BUILIDING_NUMBER	DAY	MONTH	YEAR
Fahad Alhamd	3213	557895603	12211	1169	4	3	2016
Essa AlSaleh	3775	558195000	12211	1169	12	7	2019
Mohammed Alhamoud	3115	0555127700	12211	1169	9	3	2021
Saleh AlShehri	3885	0555323103	24211	1073	17	5	2016
Ali Bou Bakr	3217	0544813303	24211	1073	22	8	2017
Fahad AlSulaymani	3113	05541410692	12211	1169	27	5	2018

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6 rows selected.

Supplier Table

```
create table Suppliers(
company_name varchar2(50) not null,
serial_no number (5) not null ,
delegates varchar2(50) not null,
phone_number number(10)not null,
postal_code number(5) not null,
location varchar2(20),
constraint supplier_pk primary key (serial_no)
)
alter table suppliers
modify location varchar2(50);

insert into suppliers
values('Kingdom farms',12334,'nasser al yahya',0534269958,12361,'Riyadh');
insert into suppliers
values( 'infinity health',56788,'abdulaziz ahmed',0576893451, 13248, 'Makkah');
insert into suppliers
values ('ToysUs',91041,'mohammad ahmed',0576893556,12331, ' Jeddha');
insert into suppliers
values ('W for funniture ',11263, 'ali almuhaamd',0937354282,32241 , ' al Khobar');
insert into suppliers
values('rove school equipment',83476,'husaam ahmed',05367890,87533,'Medina');
insert into suppliers
values('boundless cube',65743,'osama mubarak',0567234455, 29841,'Al Qassim');

select*from suppliers;
```

COMPANY_NAME	SERIAL_NO	DELEGATES	PHONE_NUMBER	POSTAL_CODE	LOCATION
boundless cube	65743	osama mubarak	567234455	29841	Al Qassim
Kingdom farms	12334	nasser al yahya	534269958	12361	Riyadh
infinity health	56788	abdulaziz ahmed	576893451	13248	Makkah
ToysUs	91041	mohammad ahmed	576893556	12331	Jeddha
W for funniture	11263	ali almuhaamd	937354282	32241	al Khobar
rove school equipment	83476	husaam ahmed	5367890	87533	Medina

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6 rows selected.

Goods Table

```
create table Goods(
    name varchar2(50) not null,
    Goods_ID number(5) not null,
    Quantity number(4) not null ,
    Shipping Varchar2(30) not null,
    Weight number(10) not null,
    Funding_Supplier Varchar2(50) not null,
    FoodType Varchar2(30) not null,
    constraint ID_PPK primary key (Goods_ID)
)

Insert all
into Goods(Goods_ID,Name,Quantity,Shipping,Weight,Funding_Supplier,FoodType) Values(11023, 'Toys',50,'Available',10000,'ToysUs Companny','-')
into Goods(Goods_ID,Name,Quantity,Shipping,Weight,Funding_Supplier,FoodType)Values(11998, 'Chickens', 150,'Available',19000,'Kingdom Farms','Fresh')
into Goods(Goods_ID,Name,Quantity,Shipping,Weight,Funding_Supplier,FoodType)Values(11154, 'School Tools',70,'Available',7000,'Rovo School equipment ','-')
into Goods(Goods_ID,Name,Quantity,Shipping,Weight,Funding_Supplier,FoodType)Values(11772, 'Furniture',11,'Available',20000,'W for Furniture','-')
into Goods(Goods_ID,Name,Quantity,Shipping,Weight,Funding_Supplier,FoodType)Values(11871,'Medicine',35,'Available',15000,'infintiy Health ','-')
into Goods(Goods_ID,Name,Quantity,Shipping,Weight,Funding_Supplier,FoodType)Values(11525,'Clothes',200,'Available',12000,'Boundless cube','-')
select*from dual;

select*from Goods;
```

NAME	GOODS_ID	QUANTITY	SHIPPING	WEIGHT	FUNDING_SUPPLIER	FOODTYPE
Toys	11023	50	Available	10000	ToysUs Companny	-
Chickens	11998	150	Available	19000	Kingdom Farms	Fresh
School Tools	11154	70	Available	7000	Rovo School equipment	-
Furniture	11772	11	Available	20000	W for Furniture	-
Medicine	11871	35	Available	15000	infintiy Health	-
Clothes	11525	200	Available	12000	Boundless cube	-

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6 rows selected.

Type_Services Table

```
create table Type_Services(
Services_ID number(5) not null,
Type varchar2(50) not null,
constraint Type_PK primary key (Type),
constraint Type_services_fk foreign key(Services_ID) references Services(Services_ID)
)

insert all
into Type_Services(Services_ID ,Type)Values(23000,'School Books and Tools')
into Type_Services(Services_ID ,Type)Values(27211,'Health insurance')
into Type_Services(Services_ID ,Type)Values(29440,'Daily Food Basket ')

into Type_Services(Services_ID ,Type)Values(27001,'Summer and Winter Clothes')
into Type_Services(Services_ID ,Type)Values(26522,'Donations and Monthly stipend')
into Type_Services(Services_ID ,Type)Values(27551,'Rooms and kitchen Fruniture')
select*from dual;

select*from Type_Services;
```

SERVICES_ID	TYPE
23000	School Books and Tools
27211	Health insurance
29440	Daily Food Basket
27001	Summer and Winter Clothes
26522	Donations and Monthly stipend
27551	Rooms and kitchen Fruniture

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6 rows selected.

Fam_Location Table

```
create table Fam_Location(
ID number(10) not null,
Location varchar2(20) not null,
constraint pk_pp primary key (Location),
constraint fk_ff foreign key (ID)references families(ID)
)
insert all
into Fam_Location Values(1127374155,'Riyadh')
into Fam_Location Values(1122448156,'Makkah')
into Fam_Location Values(1120029188,'Jeddha')

into Fam_Location Values(1129087103,'Al Qassim')
into Fam_Location Values(1123715261,'Medina')
into Fam_Location Values(1120453677,'al Khobar')
select*from dual;

select*from Fam_Location;
```

ID	LOCATION
1127374155	Riyadh
1122448156	Makkah
1120029188	Jeddha
1129087103	Al Qassim
1123715261	Medina
1120453677	al Khobar

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6 rows selected.

Assigned Table

```
create table Assigned(
Services_ID number(5) not null,
ID number (10) not null,
constraint Assigned_Services foreign key (Services_ID) references Services(Services_ID) ,
constraint Assigned_ID foreign key(ID) references families(ID)
)

insert all
into Assigned (Services_ID, ID)Values(23000,1120453677)
into Assigned (Services_ID, ID)Values(27211,1129087103)
into Assigned (Services_ID, ID)Values(29440,1120029188)
into Assigned (Services_ID, ID)Values(27001,1127374155)
into Assigned (Services_ID, ID)Values(26522,1122448156)
into Assigned (Services_ID, ID)Values(27551,1123715261)
select*from dual;

select*From Assigned;
```

SERVICES_ID	ID
23000	1120453677
27211	1129087103
29440	1120029188
27001	1127374155
26522	1122448156
27551	1123715261

[Download CSV](#)

6 rows selected.

Supplied_by Table

```
create table Supplied_by(
serial_no number(5) not null,
Goods_ID number(5) not null,
constraint ser_pk foreign key(serial_no) references Suppliers(serial_no),
constraint GGID_PPK foreign key(Goods_ID) references Goods(Goods_ID)
)

insert all
into Supplied_by (serial_no, Goods_ID)Values(12334,11998)
into Supplied_by (serial_no, Goods_ID)Values(56788,11871)
into Supplied_by (serial_no, Goods_ID)Values(91041,11023)
into Supplied_by (serial_no, Goods_ID)Values(11263,11772)
into Supplied_by (serial_no, Goods_ID)Values(83476,11154)
into Supplied_by (serial_no, Goods_ID)Values(65743,11525)
select*from dual;
```

Select*from Supplied_by;

SERIAL_NO	GOODS_ID
12334	11998
56788	11871
91041	11023
11263	11772
83476	11154
65743	11525

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6 rows selected.

Update Operations

1- Modify the Size of Location in Suppliers Table

SQL Worksheet

```
1 create table Suppliers(
2 company_name varchar2(50) not null,
3 serial_no number (5) not null ,
4 delegates varchar2(50) not null,
5 phone_number number(10)not null,
6 postal_code number(5) not null,
7 location varchar2(20),
8 constraint supplier_pk primary key (serial_no)
9 )
10
11 alter table suppliers
12 modify location varchar2(50);
```



Table altered.

2- Update Location and change The Value in specific column

Before

SQL Worksheet

```
1 create table Suppliers(
2     company_name varchar2(50) not null,
3     serial_no number (5) not null ,
4     delegates varchar2(50) not null,
5     phone_number number(10)not null,
6     postal_code number(5) not null,
7     location varchar2(20),
8     constraint supplier_pk primary key (serial_no)
9 )
10 insert into suppliers
11 values('Kingdom farms',12334,'nasser al yahya',0534269958,12361,'Riyadh');
12 insert into suppliers
13 values( 'infinity health',56788,'abdulaziz ahmed',0576893451, 13248, 'Makkah');
14 insert into suppliers
15 values ('ToysUs',91041,'mohammad ahmed',0576893556,12331,'Jeddha');
16 insert into suppliers
17 values ('W for funniture ',11263, 'ali almuhaam',0937354282,32241 , 'al Khobar');
18 insert into suppliers
19 values('rove school equipment',83476,'husaam ahmed',05367890,87533,'Medina');
20 insert into suppliers
21 values('boundless cube',65743,'osama mubarak',0567234455, 29841,'Al Qassim');
22
23 select*from suppliers;
```

COMPANY_NAME	SERIAL_NO	DELEGATES	PHONE_NUMBER	POSTAL_CODE	LOCATION
rove school equipment	83476	husaam ahmed	5367890	87533	Medina
ToysUs	91041	mohammad ahmed	576893556	12331	Jeddha
infinity health	56788	abdulaziz ahmed	576893451	13248	Makkah
W for funniture	11263	ali almuhaam	937354282	32241	al Khobar
Kingdom farms	12334	nasser al yahya	534269958	12361	Riyadh
boundless cube	65743	osama mubarak	567234455	29841	Al Qassim

[Download CSV](#)

After

```
1 create table Suppliers(
2 company_name varchar2(50) not null,
3 serial_no number (5) not null ,
4 delegates varchar2(50) not null,
5 phone_number number(10)not null,
6 postal_code number(5) not null,
7 location varchar2(20),
8 constraint supplier_pk primary key (serial_no)
9 )
10 insert into suppliers
11 values('Kingdom farms',12334,'nasser al yahya',0534269958,12361,'Riyadh');
12 insert into suppliers
13 values( 'infinity health',56788,'abdulaziz ahmed',0576893451, 13248, 'Makkah');
14 insert into suppliers
15 values ('ToysUs',91041,'mohammad ahmed',0576893556,12331,'Jeddha');
16 insert into suppliers
17 values ('W for funiture ',11263, 'ali almuhaam',0937354282,32241 , 'al Khobar');
18 insert into suppliers
19 values('rove school equipment',83476,'husaam ahmed',05367890,87533,'Medina');
20 insert into suppliers
21 values('boundless cube',65743,'osama mubarak',0567234455, 29841,'Al Qassim');
22
23 select*from suppliers;
24
25 Update Suppliers
26 set location='Al Qassim Unaizah'
27 where location= 'Al Qassim' ;
28
29 select*from suppliers;
```



COMPANY_NAME	SERIAL_NO	DELEGATES	PHONE_NUMBER	POSTAL_CODE	LOCATION
rove school equipment	83476	husaam ahmed	5367890	87533	Medina
ToysUs	91041	mohammad ahmed	576893556	12331	Jeddha
infinity health	56788	abdulaziz ahmed	576893451	13248	Makkah
W for funiture	11263	ali almuhaam	937354282	32241	al Khobar
Kingdom farms	12334	nasser al yahya	534269958	12361	Riyadh
boundless cube	65743	osama mubarak	567234455	29841	Al Qassim Unaizah

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6 rows selected.

3- Update Table Name For Families to Families_need

SQL Worksheet

 Clear

 Find

```
1 create table families(
2 name varchar2(50) not null,
3 ID number(10) not null,
4 no_of_members number(10) not null,
5 status varchar2(50) not null,
6 phone_number number(10) not null,
7 mailbox number(9) not null,
8 constraint pk_id primary key (ID)
9 )
10 insert into families values(' Salhe Aldossary',1127374155,10,'need to clothes',0557715898,20321)
11 insert into families values('Um Faisal Alotaibi',1122448156,7,'need Fiancial Support',0555287651,99883)
12 insert into families values('Suad alqahtani',1120029188,8,'lack of food',0554714662,11988)
13 insert into families values('Mohammed alSsubaie',1129087103,3,'healthe care',0557770098,12287)
14 insert into families values('Saad alarjani',1123715261,6,'need to Furniture',0544770220,87110)
15 insert into families values('Mariam khalidi',1120453677,5,'need School Tools',0547220317,22872)
16
17 select*from families;
18
19 alter table families
20 rename to Families_need;
21
22 select*from Families_need;
```

select*from Families_need;

NAME	ID	NO_OF_MEMBERS	STATUS	PHONE_NUMBER	MAILBOX
Saad alarjani	1123715261	6	need to Furniture	544770220	87110
Mariam khalidi	1120453677	5	need School Tools	547220317	22872
Mohammed alSsubaie	1129087103	3	healthe care	557770098	12287
Salhe Aldossary	1127374155	10	need to clothes	557715898	20321
Um Faisal Alotaibi	1122448156	7	need Fiancial Support	0555287651	99883
Suad alqahtani	1120029188	8	lack of food	0554714662	11988

[Download CSV](#)

6 rows selected.

4- Update Phone number to specific family Via Family Name

SQL Worksheet

 Clear  Find

```
1 create table families(
2 name varchar2(50) not null,
3 ID number(10) not null,
4 no_of_members number(10) not null,
5 status varchar2(50) not null,
6 phone_number number(10) not null,
7 mailbox number(9) not null,
8 constraint pk_id primary key (ID)
9 )
10 insert into families values(' Salhe Aldossary',1127374155,10,'need to clothes',0557715898,20321)
11 insert into families values('Um Faisal Alotaibi',1122448156,7,'need Fiancial Support',0555287651,99883)
12 insert into families values('Suad alqahtani',1120029188,8,'lack of food',0554714662,11988)
13 insert into families values('Mohammed alSSubaie ',1129087103,3,'healthe care',0557770098,12287)
14 insert into families values('Saad alarjani',1123715261,6,'need to Furniture',0544770220,87110)
15 insert into families values('Mariam khalidi',1120453677,5,'need School Tools',0547220317,22872)
16
17 select *from families;
18
19 Update families
20 set phone_number=0554200323
21 where name='Mariam khalidi';
22
23 select *from families;
```



NAME	ID	NO_OF_MEMBERS	STATUS	PHONE_NUMBER	MAILBOX
Suad alqahtani	1120029188	8	lack of food	554714662	11988
Salhe Aldossary	1127374155	10	need to clothes	557715898	20321
Um Faisal Alotaibi	1122448156	7	need Fiancial Support	0555287651	99883
Mohammed alSSubaie	1129087103	3	healthe care	0557770098	12287
Mariam khalidi	1120453677	5	need School Tools	0554200323	22872
Saad alarjani	1123715261	6	need to Furniture	0544770220	87110



[Download CSV](#)

6 rows selected.

Query Operations

1- Select the employee who their name Start with F

SQL Worksheet

Actions ▾ Save Run ▶

```
1 create table Employee(
2 Name varchar2(50) not null,
3 EMP_ID number(5) not null,
4 phone_Number number(10) not null,
5 zip_code number(5) not null,
6 Building_Number number(4) not null,
7 day number(2) ,
8 month number(2) ,
9 Year number(4) ,
10 constraint EMPID_PK primary key (EMP_ID)
11 )
12
13 insert all
14 into Employee(Name,EMP_ID,phone_Number,zip_code,Building_Number,Day,Month,year )Values('Fahad Alhamd',3213,0557895603,12211,1169, 4,3,2016)
15 into Employee(Name,EMP_ID,phone_Number,zip_code,Building_Number,Day,Month,year )Values('Essa AlSaleh',3775,0558195000,12211,1169, 12,7,2019)
16 into Employee(Name,EMP_ID,phone_Number,zip_code,Building_Number,Day,Month,year )Values('Mohammed Alhamoud',3115,0555127700,12211,1169, 9,3,2021)
17 into Employee(Name,EMP_ID,phone_Number,zip_code,Building_Number,Day,Month,year )Values('Saleh ALShehri',3885,0555323103,24211,1073,17,5,2016)
18 into Employee(Name,EMP_ID,phone_Number,zip_code,Building_Number,Day,Month,year )Values('Ali Bou Bakr',3217,0544813303,24211,1073,22,8,2017)
19 into Employee(Name,EMP_ID,phone_Number,zip_code,Building_Number,Day,Month,year )Values('Fahad AlSulaymani',3113,05541410692,12211,1169,27,5,2018)
20 select*from dual;
21
22 Select*
23 from employee
24 Where Name like'F%';
```

NAME	EMP_ID	PHONE_NUMBER	ZIP_CODE	BUILDING_NUMBER	DAY	MONTH	YEAR
Fahad Alhamd	3213	557895603	12211	1169	4	3	2016
Fahad AlSulaymani	3113	05541410692	12211	1169	27	5	2018

Download CSV
2 rows selected.

2- Select The family who need Health Care

SQL Worksheet

Clear

Find

Actions ▾

Save

Run ▶

```
1 create table families(
2     name varchar2(50) not null,
3     ID number(10) not null,
4     no_of_members number(10) not null,
5     status varchar2(50) not null,
6     phone_number number(10) not null,
7     mailbox number(9) not null,
8     constraint pk_id primary key (ID)
9 )
10 insert into families values(' Salhe Aldossary',1127374155,10,'need to clothes',0557715898,20321)
11 insert into families values('Um Faisal Alotaibi',1122448156,7,'need Fiancial Support',0555287651,99883)
12 insert into families values('Suad alqahtani',1120029188,8,'lack of food',0554714662,11988)
13 insert into families values('Mohammed alSSubae',1129087103,3,'healthe care',0557770098,12287)
14 insert into families values('Saad alarjani',1123715261,6,'need to Furniture',0544770220,87110)
15 insert into families values('Mariam khalidi',1120453677,5,'need School Tools',0547220317,22872)
16
17 select*from families;
18
19 Select*
20 From families
21 Where status ='healthe care'
22 Order by no_of_members DESC;
23
24
```

NAME	ID	NO_OF_MEMBERS	STATUS	PHONE_NUMBER	MAILBOX
Mohammed alSSubae	1129087103	3	healthe care	557770098	12287

[Download CSV](#)

3- Select Quantity of the Goods by Order

Output Before

SQL Worksheet

Clear Find Actions Save Run ▶

```
1 create table Goods(
2     name varchar2(50) not null,
3     Goods_ID number(5) not null,
4     Quantity number(4) not null ,
5     Shipping Varchar2(30) not null,
6     Weight number(10) not null,
7     Funding_Supplier Varchar2(50) not null,
8     FoodType Varchar2(30) not null,
9     constraint ID_PPK primary key (Goods_ID)
10 )
11
12
13
14 Insert all
15 into Goods(Goods_ID,Name,Quantity,Shipping,Weight,Funding_Supplier,FoodType) Values(11023, 'Toys',50,'Available',10000,'ToysUs Company','-')
16 into Goods(Goods_ID,Name,Quantity,Shipping,Weight,Funding_Supplier,FoodType)Values(11998,'Chickens', 150,'Available',19000,'Kingdom Farms','Fresh')
17 into Goods(Goods_ID,Name,Quantity,Shipping,Weight,Funding_Supplier,FoodType)Values(11154,'School Tools',70,'Available',7000,'Rovo School equipment')
18 into Goods(Goods_ID,Name,Quantity,Shipping,Weight,Funding_Supplier,FoodType)Values(11772,'Furniture ',11,'Available',20000,'W for Furniture','-')
19 into Goods(Goods_ID,Name,Quantity,Shipping,Weight,Funding_Supplier,FoodType)Values(11871,'Medicine',35,'Available',15000,'infintiy Health ','-')
20 into Goods(Goods_ID,Name,Quantity,Shipping,Weight,Funding_Supplier,FoodType)Values(11525,'Clothes',200,'Available',12000,'Boundless cube','-')
21 select*from dual;
22
23 select*from Goods;
24
25
26 Select*
27 from Goods
28 order by Quantity DESC;
29
30
```



NAME	GOODS_ID	QUANTITY	SHIPPING	WEIGHT	FUNDING_SUPPLIER	FOODTYPE
Toys	11023	50	Available	10000	ToysUs Company	-
Chickens	11998	150	Available	19000	Kingdom Farms	Fresh
School Tools	11154	70	Available	7000	Rovo School equipment	-
Furniture	11772	11	Available	20000	W for Furniture	-
Medicine	11871	35	Available	15000	infintiy Health	-
Clothes	11525	200	Available	12000	Boundless cube	-

Download CSV

6 rows selected.

Output after Order



NAME	GOODS_ID	QUANTITY	SHIPPING	WEIGHT	FUNDING_SUPPLIER	FOODTYPE
Clothes	11525	200	Available	12000	Boundless cube	-
Chickens	11998	150	Available	19000	Kingdom Farms	Fresh
School Tools	11154	70	Available	7000	Rovo School equipment	-
Toys	11023	50	Available	10000	ToysUs Company	-
Medicine	11871	35	Available	15000	infintiy Health	-
Furniture	11772	11	Available	20000	W for Furniture	-

Download CSV

6 rows selected.

4- The total amount of number of members in the families

SQL Worksheet

```
1 create table families(
2     name varchar2(50) not null,
3     ID number(10) not null,
4     no_of_members number(10) not null,
5     status varchar2(50) not null,
6     phone_number number(10) not null,
7     mailbox number(9) not null,
8     constraint pk_id primary key (ID)
9 )
10 insert into families values(' Salhe Aldossary',1127374155,10,'need to clothes',0557715898,20321)
11 insert into families values('Um Faisal Alotaibi',1122448156,7,'need Fiancial Support',0555287651,99883)
12 insert into families values('Suad alqahtani',1120029188,8,'lack of food',0554714662,11988)
13 insert into families values('Mohammed alSSubaie',1129087103,3,'healthe care',0557770098,12287)
14 insert into families values('Saad alarjani',1123715261,6,'need to Furniture',0544770220,87110)
15 insert into families values('Mariam khalidi',1120453677,5,'need School Tools',0547220317,22872)
16
17 select*from families;
18
19 select sum(no_of_members )
20 from families;
21
22
```

SUM(NO_OF_MEMBERS)
39

39

[Download CSV](#)

CODE

```
create table Goods(  
    name varchar2(50) not null,  
    Goods_ID number(5) not null,  
    Quantity number(4) not null ,  
    Shipping Varchar2(30) not null,  
    Weight number(10) not null,  
    Funding_Supplier Varchar2(50) not null,  
    FoodType Varchar2(30) not null,  
    constraint ID_PPK primary key (Goods_ID)  
)
```

Insert all
into
Goods(Goods_ID,Name,Quantity,Shipping,Weight,Funding_Supplier,Fo
odType) Values(11023, 'Toys',50,'Available',10000,'ToysUs
Compnany','-')
into
Goods(Goods_ID,Name,Quantity,Shipping,Weight,Funding_Supplier,Fo
odType)Values(11998,'Chickens', 150,'Available',19000,'Kingdom
Farms','Fresh')
into
Goods(Goods_ID,Name,Quantity,Shipping,Weight,Funding_Supplier,Fo
odType)Values(11154,'School Tools',70,'Available',7000,'Rovo School
equipment ','-')
into
Goods(Goods_ID,Name,Quantity,Shipping,Weight,Funding_Supplier,Fo
odType)Values(11772,'Furniture',11,'Available',20000,'W for
Furniture','-')
into
Goods(Goods_ID,Name,Quantity,Shipping,Weight,Funding_Supplier,Fo
odType)Values(11871,'Medicine',35,'Available',15000,'infintiy Health
into
Goods(Goods_ID,Name,Quantity,Shipping,Weight,Funding_Supplier,Fo
odType)Values(11525,'Clothes',200,'Available',12000,'Boundless
cube','-')

```
select*from dual;
```

```
select*from Goods;
```

```
create table Services(  
Name varchar2(50) not null,  
Services_ID number(5) not null,  
EMP_ID number(5),  
serial_no number(5),  
constraint ID_PK primary key (Services_ID),  
constraint EMP_FK foreign key(EMP_ID ) references  
Employee(EMP_ID ),  
constraint serial_FK foreign key(serial_no ) references  
Suppliers(serial_no )  
)
```

```
insert all
```

```
into Services(Name,Services_ID,serial_no,EMP_ID)  
values('Education',23000,83476,3775)  
into Services(Name,Services_ID,serial_no,EMP_ID ) values('Health  
Care',27211,56788,3113)  
into Services(Name,Services_ID,serial_no,EMP_ID )  
values('Nutrition',29440,12334,3213)  
into Services(Name,Services_ID,serial_no,EMP_ID )  
values('Clothes',27001,91041,3885)  
into Services(Name,Services_ID,serial_no,EMP_ID ) values('Fiancial  
Aid',26522,65743,3217)  
into Services(Name,Services_ID,serial_no,EMP_ID )  
values('Furniture',27551,11263,3115)  
select*from dual;  
select*from Services;
```

```
create table Employee(  
Name varchar2(50) not null,  
EMP_ID number(5) not null,  
phone_Number number(10) not null,  
zip_code number(5) not null,  
Buildling_Number number(4) not null,  
day number(2) ,
```

```
month number(2) ,
Year number(4) ,
constraint EMPID_PK primary key (EMP_ID)
)
```

```
insert all
into
Employee(Name,EMP_ID,phone_Number,zip_code,Building_Number,Day,Month,year )Values('Fahad Alhamd',3213,0557895603,12211,1169,
4,3,2016)
into
Employee(Name,EMP_ID,phone_Number,zip_code,Building_Number,Day,Month,year )Values('Essa AlSaleh',3775,0558195000,12211,1169,
12,7,2019)
into
Employee(Name,EMP_ID,phone_Number,zip_code,Building_Number,Day,Month,year )Values('Mohammed
Alhamoud',3115,0555127700,12211,1169, 9,3,2021)
into
Employee(Name,EMP_ID,phone_Number,zip_code,Building_Number,Day,Month,year )Values('Saleh
AlShehri',3885,0555323103,24211,1073,17,5,2016)
into
Employee(Name,EMP_ID,phone_Number,zip_code,Building_Number,Day,Month,year)Values('Ali Bou
Bakr',3217,0544813303,24211,1073,22,8,2017)
into
Employee(Name,EMP_ID,phone_Number,zip_code,Building_Number,Day,Month,year)Values('Fahad
AlSulaymani',3113,05541410692,12211,1169,27,5,2018)
select*from dual;
```

```
select*from employee;
```

```
create table Suppliers(
company_name varchar2(50) not null,
serial_no number (5) not null ,
delegates varchar2(50) not null,
phone_number number(10)not null,
postal_code number(5) not null,
```

```
location varchar2(20),
constraint supplier_pk primary key (serial_no)
)
alter table suppliers
modify location varchar2(50);

insert into suppliers
values('Kingdom farms',12334,'nasser al
yahya',0534269958,12361,'Riyadh');
insert into suppliers
values( 'infinity health',56788,'abdulaziz ahmed',0576893451, 13248,
'Makkah');
insert into suppliers
values ('ToysUs',91041,'mohammad
ahmed',0576893556,12331,'Jeddha');
insert into suppliers
values ('W for furniture ',11263, 'ali almuhaamid',0937354282,32241 , 'al
Khobar');
insert into suppliers
values('rove school equipment',83476,'husaam
ahmed',05367890,87533,'Medina');
insert into suppliers
values('boundless cube',65743,'osama mubarak',0567234455,
29841,'Al Qassim');

select*from suppliers;
```

```
create table families(
name varchar2(50) not null,
ID number(10) not null,
no_of_members number(10) not null,
status varchar2(50) not null,
phone_number number(10) not null,
mailbox number(9) not null,
constraint pk_id primary key (ID)
)
insert into families values(' Salhe Aldossary',1127374155,10,'need to
clothes',0557715898,20321)
insert into families values('Um Faisal Alotaibi',1122448156,7,'need
Fiancial Support',0555287651,99883)
```

```
insert into families values('Suad alqahtani',1120029188,8,'lack of food',0554714662,11988)
insert into families values('Mohammed alSsubaie',1129087103,3,'healthe care',0557770098,12287)
insert into families values('Saad alarjani',1123715261,6,'need to Furniture',0544770220,87110)
insert into families values('Mariam khalidi',1120453677,5,'need School Tools',0547220317,22872)
```

```
select*from families;
```

```
create table Type_Services(
Services_ID number(5) not null,
Type varchar2(50) not null,
constraint Type_PK primary key (Type),
constraint Type_services_fk foreign key(Services_ID) references Services(Services_ID)
)
```

```
insert all
into Type_Services(Services_ID ,Type)Values(23000,'School Books and Tools')
into Type_Services(Services_ID ,Type)Values(27211,'Health insurance')
into Type_Services(Services_ID ,Type)Values(29440,'Daily Food Basket ')
into Type_Services(Services_ID ,Type)Values(27001,'Summer and Winter Clothes')
into Type_Services(Services_ID ,Type)Values(26522,'Donations and Monthly stipend')
into Type_Services(Services_ID ,Type)Values(27551,'Rooms and kitchen Fruniture')
select*from dual;
```

```
select*from Type_Services;
```

```
create table Fam_Location(
ID number(10) not null,
Location varchar2(20) not null,
constraint pk_pp primary key (Location),
constraint fk_ff foreign key (ID)references families(ID)
```

```
)  
insert all  
into Fam_Location Values(1127374155,'Riyadh')  
into Fam_Location Values(1122448156,'Makkah')  
into Fam_Location Values(1120029188,'Jeddha')  
  
into Fam_Location Values(1129087103,'Al Qassim')  
into Fam_Location Values(1123715261,'Medina')  
into Fam_Location Values(1120453677,'al Khobar')  
select*from dual;  
  
select*from Fam_Location;
```

```
create table Supplied_by(  
serial_no number(5) not null,  
Goods_ID number(5) not null,  
constraint ser_pk foreign key(serial_no) references Suppliers(serial_no),  
constraint GGID_PPK foreign key(Goods_ID) references  
Goods(Goods_ID)  
)
```

```
insert all  
into Supplied_by (serial_no, Goods_ID)Values(12334,11998)  
into Supplied_by (serial_no, Goods_ID)Values(56788,11871)  
into Supplied_by (serial_no, Goods_ID)Values(91041,11023)  
into Supplied_by (serial_no, Goods_ID)Values(11263,11772)  
into Supplied_by (serial_no, Goods_ID)Values(83476,11154)  
into Supplied_by (serial_no, Goods_ID)Values(65743,11525)  
select*from dual;
```

```
Select*from Supplied_by;
```

```
create table Assigned(  
Services_ID number(5) not null,  
ID number (10) not null,  
constraint Assigned_Services foreign key (Services_ID) references  
Services(Services_ID) ,  
constraint Assigned_ID foreign key(ID) references families(ID)  
)
```

```
insert all
into Assigned (Services_ID, ID)Values(23000,1120453677)
into Assigned (Services_ID, ID)Values(27211,1129087103)
into Assigned (Services_ID, ID)Values(29440,1120029188)
into Assigned (Services_ID, ID)Values(27001,1127374155)
into Assigned (Services_ID, ID)Values(26522,1122448156)
into Assigned (Services_ID, ID)Values(27551,1123715261)
select*from dual;
```

```
select*From Assigned;
```


ble

```
create table Services(
Name varchar2(50) not null,
Services_ID number(5) not null,
EMP_ID number(5),
serial_no number(5),
constraint ID_PK primary key (Services_ID),
constraint EMP_FK foreign key(EMP_ID ) references Employee(EMP_ID ),
constraint serial_FK foreign key(serial_no ) references Suppliers(serial_no )
)

insert all
into Services(Name,Services_ID,serial_no,EMP_ID) values('Education',23000,83476,3775)
into Services(Name,Services_ID,serial_no,EMP_ID ) values('Health Care',27211,56788,3113)
into Services(Name,Services_ID,serial_no,EMP_ID ) values('Nutrition',29440,12334,3213)
into Services(Name,Services_ID,serial_no,EMP_ID ) values('Entertainment',27001,91041,3885)
into Services(Name,Services_ID,serial_no,EMP_ID ) values('Fiancial Aid',26522,65743,3217)
into Services(Name,Services_ID,serial_no,EMP_ID ) values('Furniture',27551,11263,3115)

select*from dual;
select*from Services;
```

NAME	SERVICES_ID	EMP_ID	SERIAL_NO
Education	23000	3775	83476
Health Care	27211	3113	56788
Nutrition	29440	3213	12334
Entertainment	27001	3885	91041
Fiancial Aid	26522	3217	65743
Furniture	27551	3115	11263

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6 rows selected.